KoPa Scanner

A99

User's Manual

Ver 1.0

SHENZHEN OSTEC OPTO-ELECTRONIC TECHNOLOGY CO.,LTD.
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KoPa Scanner A99 cannot work regularly 33

Chapter 1 Start

1.1 Safety Warnings and Precautions

1) To avoid danger or damage incurred to the lens, do not touch the lens directly with your fingers.
2) To avoid failure or electric shock hazard and so on, do not disassemble or modify the internal structure of the device.
3) Do not plug in or unplug the USB when hands are wet.
4) Do not use alcohol and other organic solvents to clean the device.
5) If the lens are dirty or damp, you should better use dry and non-linen fabric or professional lens tissue to wipe them. To avoid scratches on the surface, do not touch the lens with your fingers. Wipe the lens lightly.
6) The products are not specifically designed for an outdoor use. Do not expose it to outdoor environment without any protection. Excessive temperature and humidity will damage the lens.
7) Please use in the following environment: Temperature: 0℃～ 40℃; relative humidity: 45% ～ 85%.
8) If any foreign matter, water or liquid enter into the device by accident, disconnect the USB cable immediately. Please send it to the maintenance center and do not use the hair dryer to dry it by yourself.
9) To prevent the device from being tripped over or dropped, please put away the device's USB cables in use or standby.
10) To avoid electric shock by accident, please power off the device before

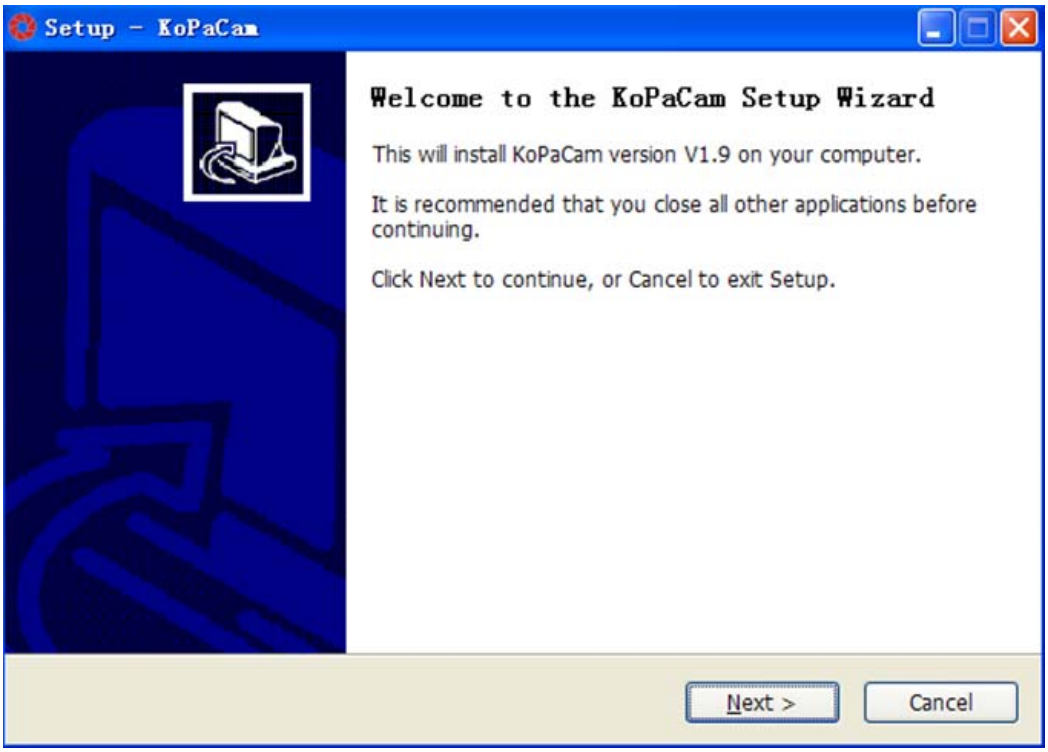
you move your PC or laptop.

1.2 Installation Instructions

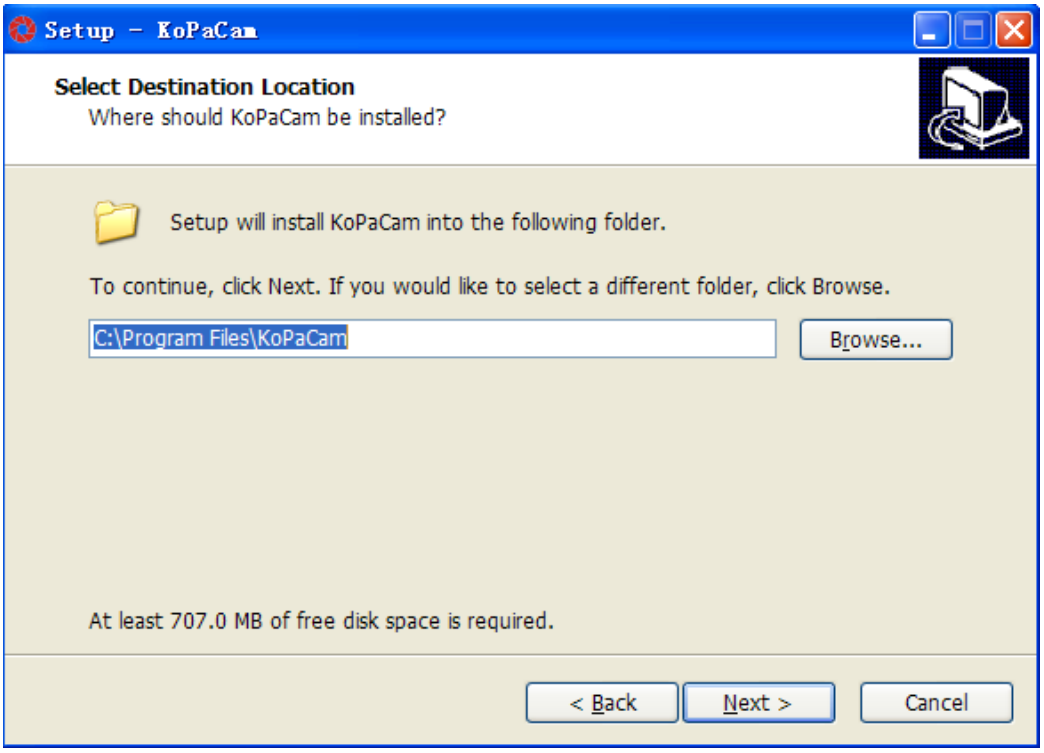
Step 1: Start the computer and put the installation disk into the CD-ROM.

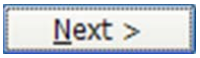
Step 2: Select "KoPaCam.exe" file. When the following window appears, please choose the language and click OK.

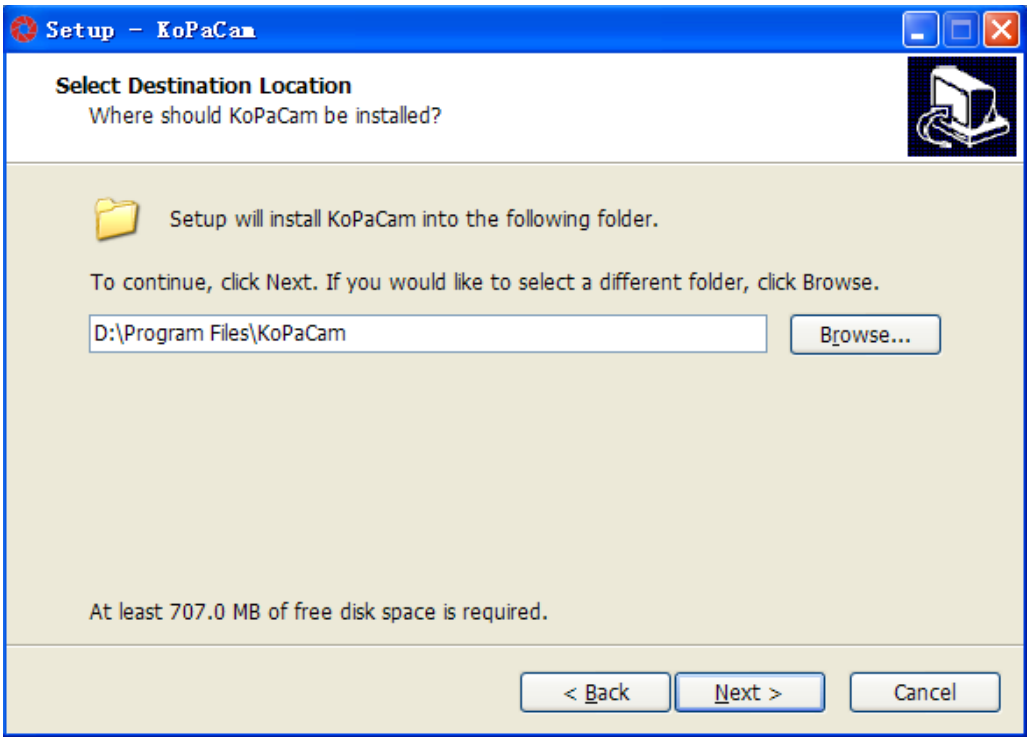
Step 3: When the window"Welcome to the KoPaCam Setup Wizard"appears, please click Next >.



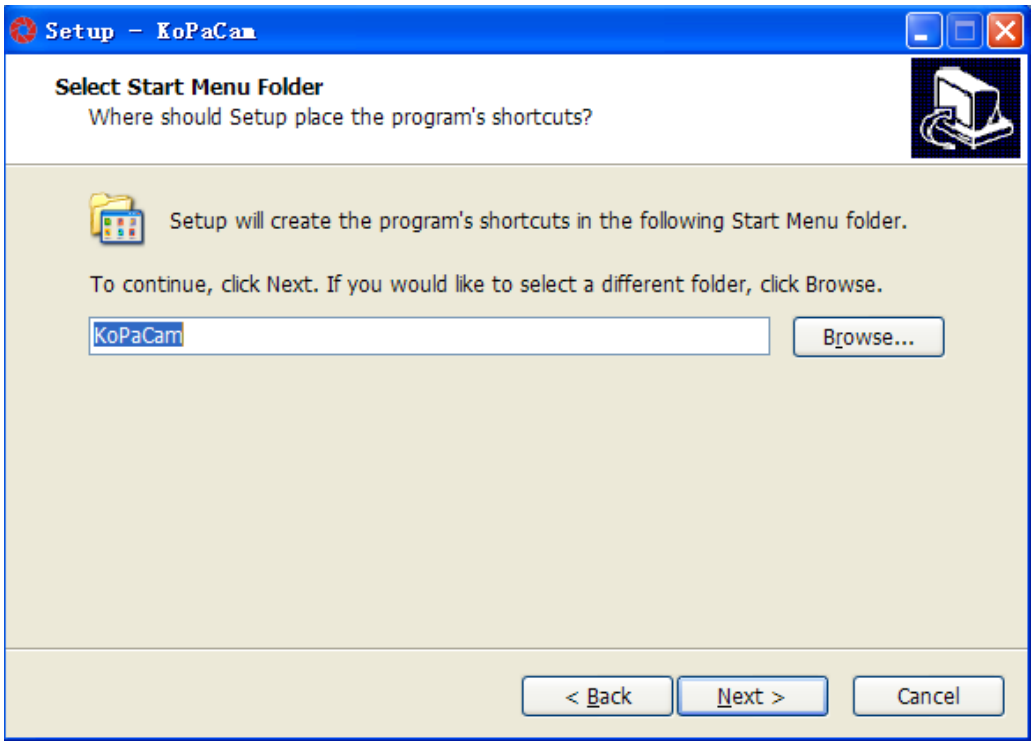
Step 4: When the following window "Select Destination Location" appears, click "Browse" to choose the file installation path.



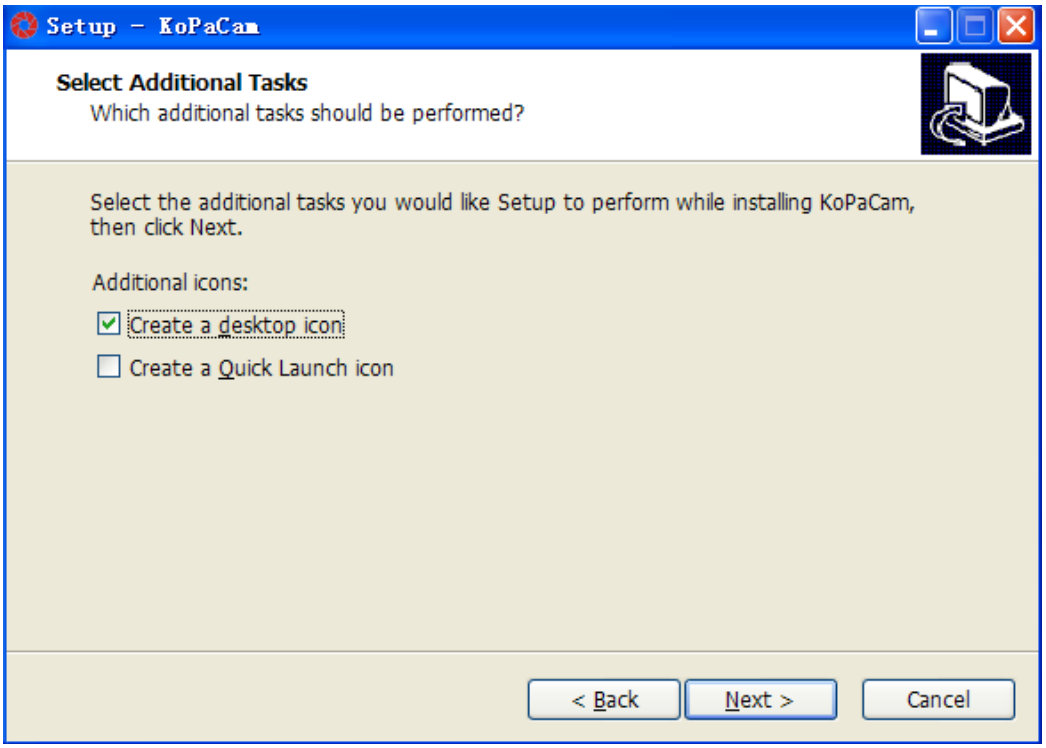
Step 5: When you confirm the file installation path, click  to continue.



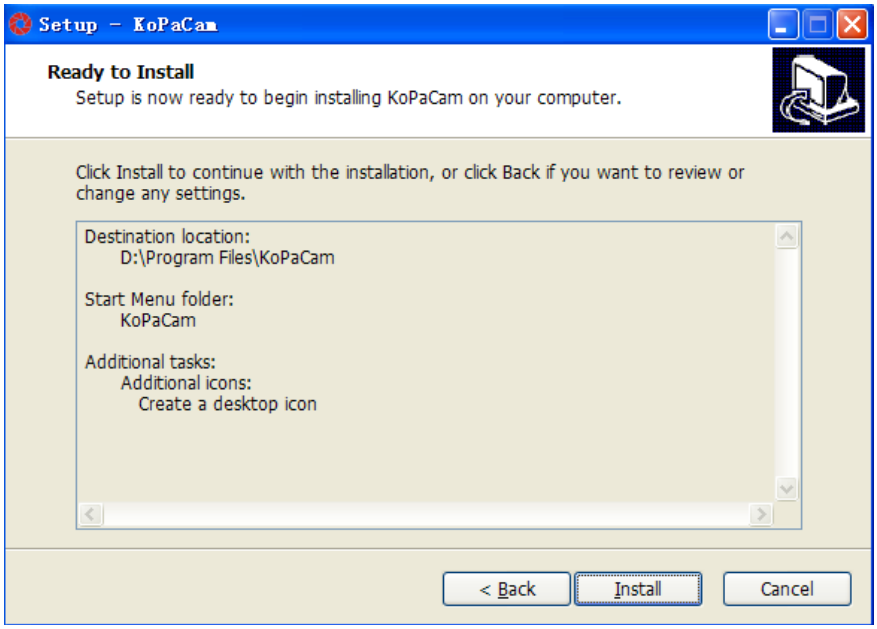
Step 6: When the following window appears, click Browse... to confirm your chosen file folder and then click Next >.



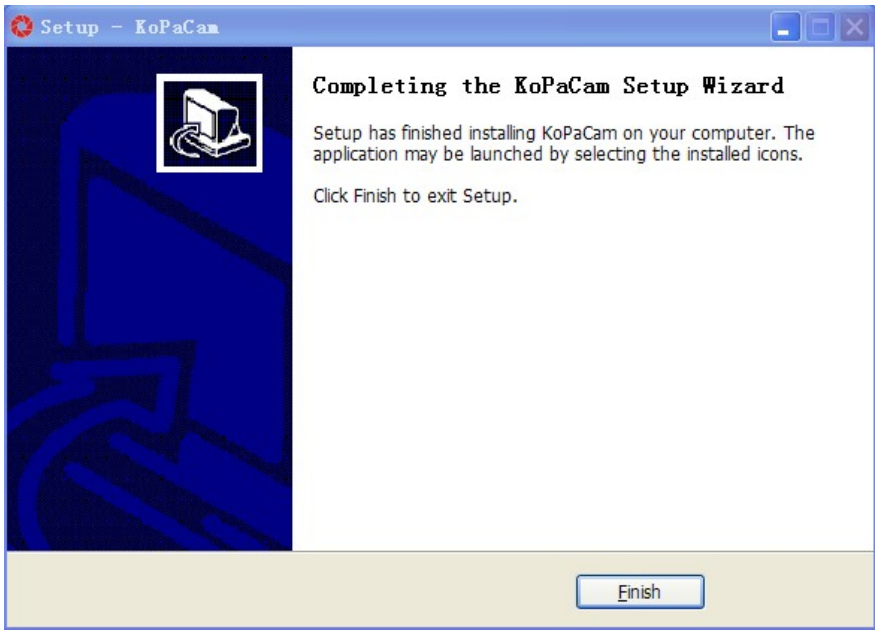
Step 7: When the following window appears, please tick the shortcut you need and then click Next >.



Step 8: Make sure whether the "Destination Location", "Start Menu Folder"and"Additional Tasks" are installed correctly. After confirming, please click Install.



Step 9: The progress bar will appear during the installation .When the following window appears, the software is installed successfully. Click Finish to complete the installation. After the window closes, check the KoPaCam icon on your desktop. If you cannot find it, check "Start" → "All Programs".

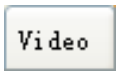


Step 10: Take the device's USB port to connect to the PC or laptop. Then, "Found a New Device" will appear on the screen, the driver installation will be automatically completed by the system.

Step 11: Run "KoPa Scanner A99" on the desktop or "Start"→"All Programs".

Tip 1: The system might prompt you to install a patch of ″Microsoft .NET Framework 4.0″, when you are installing ″KoPa Scanner A99″. Please follow the notice to download and install.

Tip**2**: Make sure that the KoPa scanner A99 has been connected with the computer's USB port before you run this device at the first time. Otherwise, you can only operate

. 

is invalid.

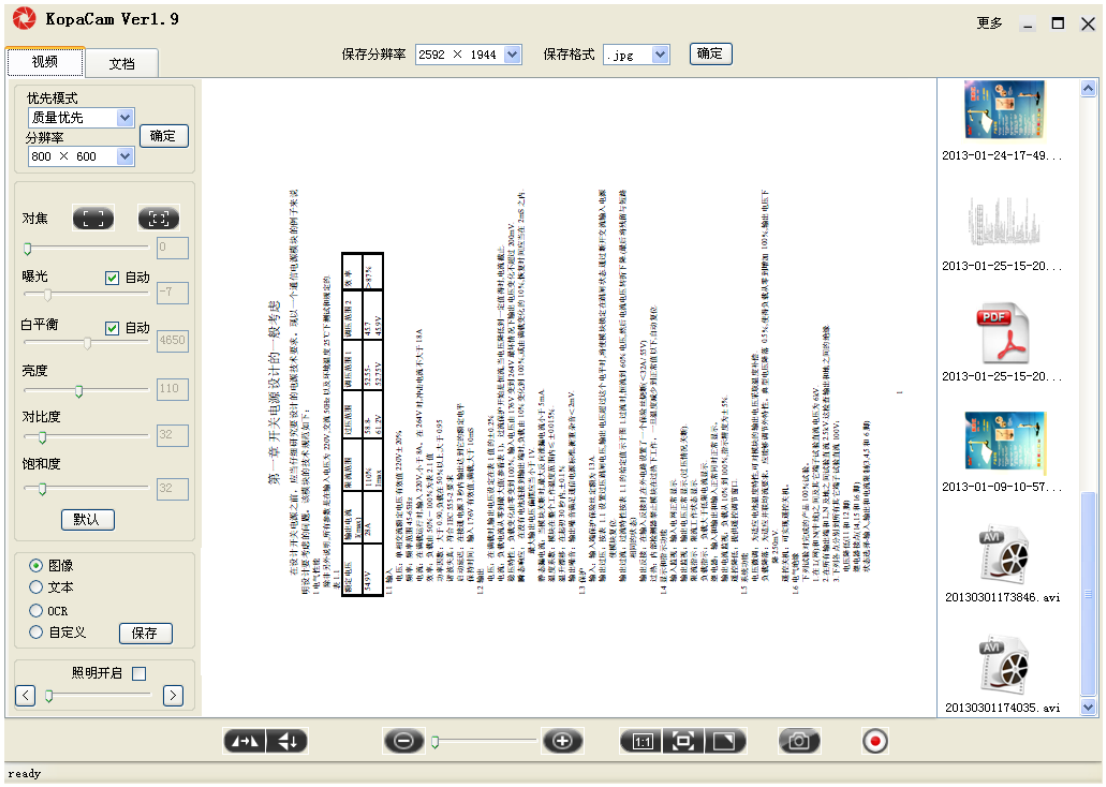
Tip 3: If the device is connected to the more than one USB port for the first time, the system will automatically complete the driver installation for every USB port.

Tip **4**: Please close "KoPa Scanner" program first before unplug USB cable from the KoPa scanner A99.

1.3 Functions of Device

After taking KoPa scanner A99 from the packing carton, please set up the device with reference to the schematic diagram on the packaging tray. Then connect the KoPa scanner to the computer correctly and open KoPa

Scanner program. The software will automatically open and capture the current scene. The preview interface is shown as below:

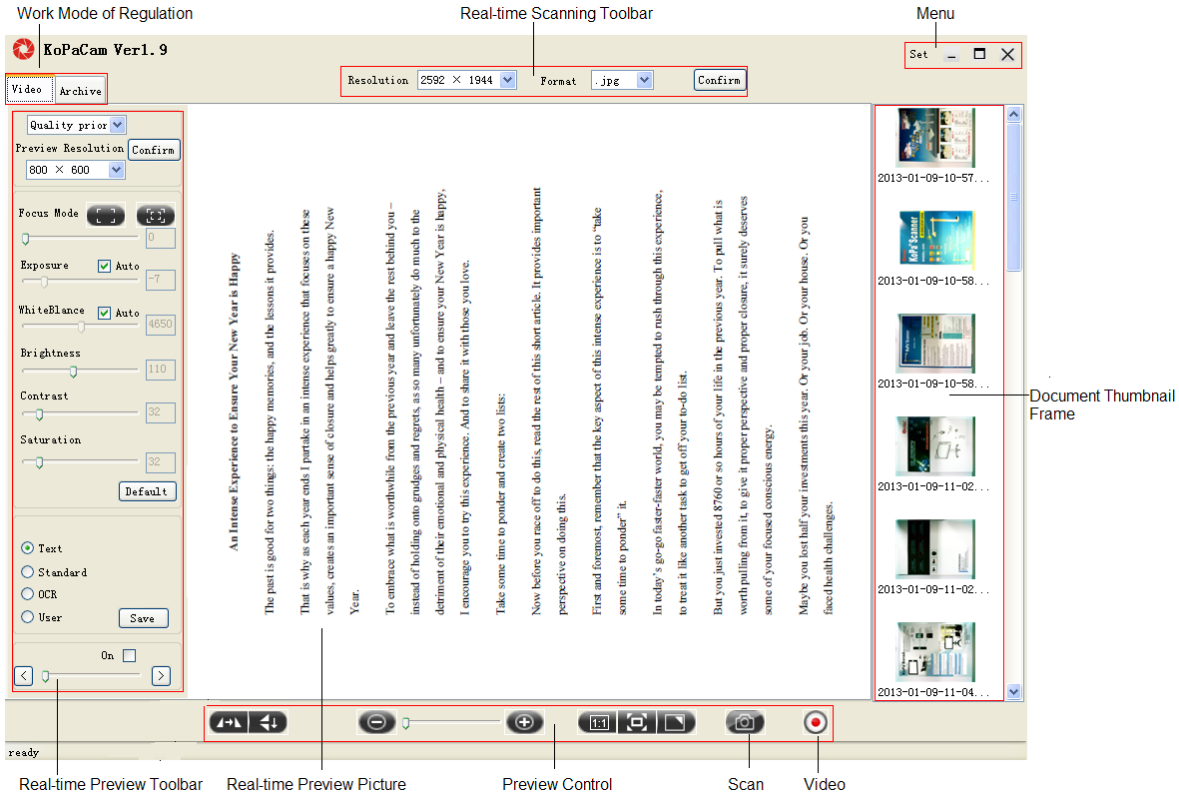


Tip **1**: "KoPa Scanner" is only designed for KoPa scanner A99 and it may not run or display abnormal for non-KoPa scanner A99.

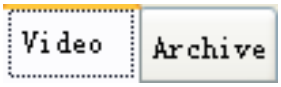
Tip 2: Do not pull out KoPa scanner A99 when program is running.

Chapter 2 Introduction of Software Interface

When program is running, the following software interface is supposed to appear:



2.1 Video Mode

Open KoPaCam Program. The program defaults to "video" mode. The software operating interface is shown as above. You can select working mode in 

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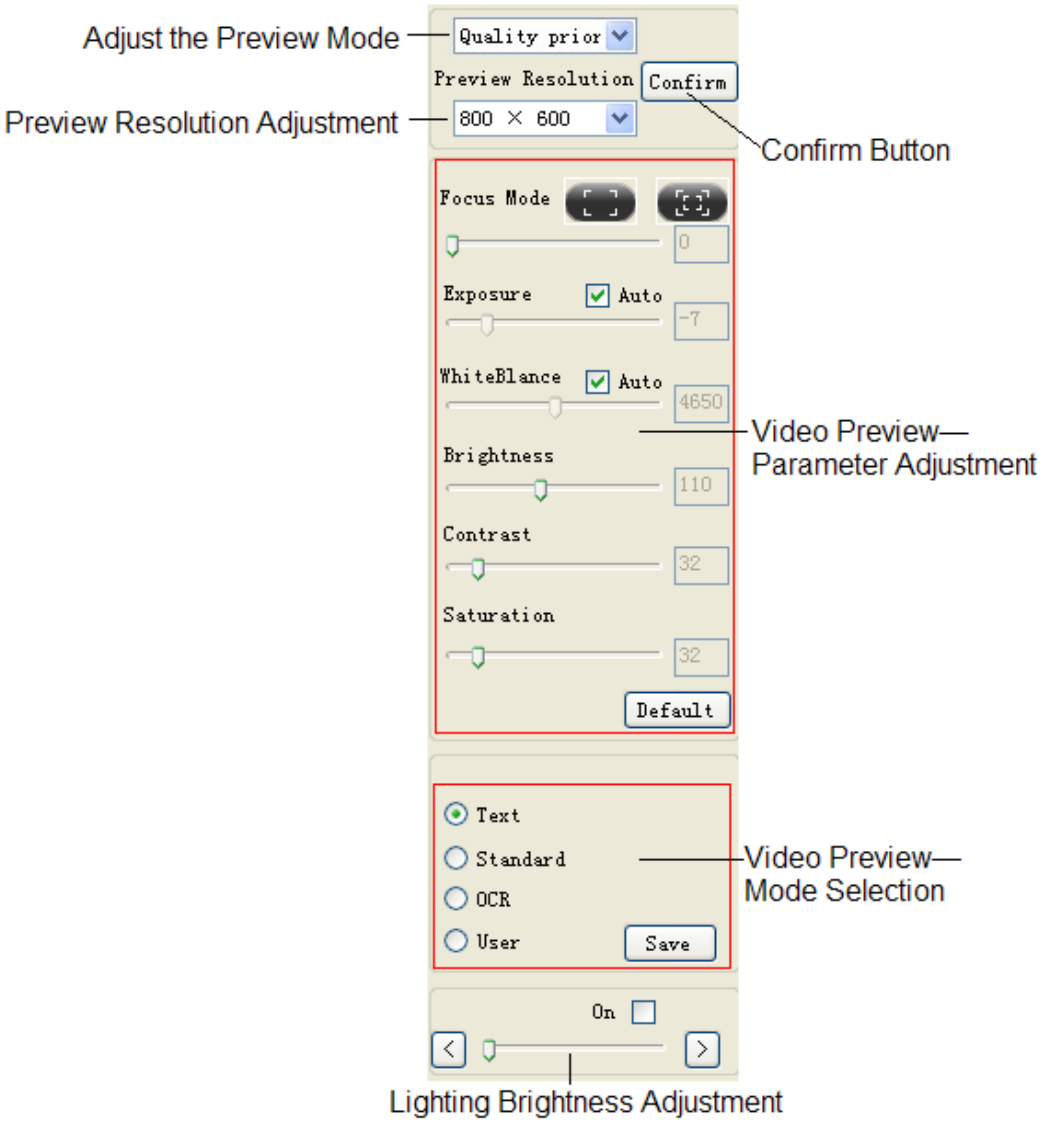
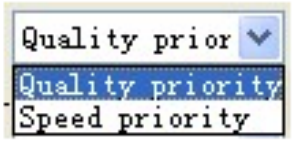
2.1.1 Real Time Preview Toolbar

Open KoPaCam program. The interface presets parameters related to image display effects in order to be called for practical use.



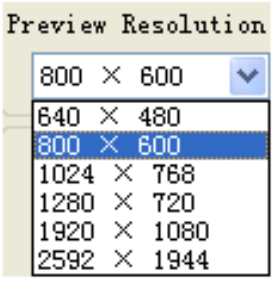
2.1.1.1 Preview Mode Selection

Preview mode has speed priority mode and quality priority mode. The program defaults to quality priority. You can choose speed priority or quality priority depending on your needs. Click Confirm.



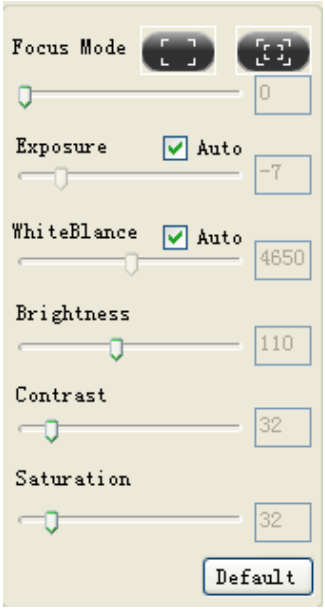
2.1.1.2 Preview Resolution Selection

Preview resolution has mode 640×480，800×600, 1024×768, 1280×720，1920×1080 and 2592×1944. The default value is 800×600. You can choose any of them depending on your needs. Click Confirm.



2.1.1.3 Video Preview-Parameter Adjustment

Users can adjust the corresponding parameters according to their preferences so as to achieve the best preview and scan effects.



Single Focus: KoPa Scanner A99 will perform auto focus once when click .

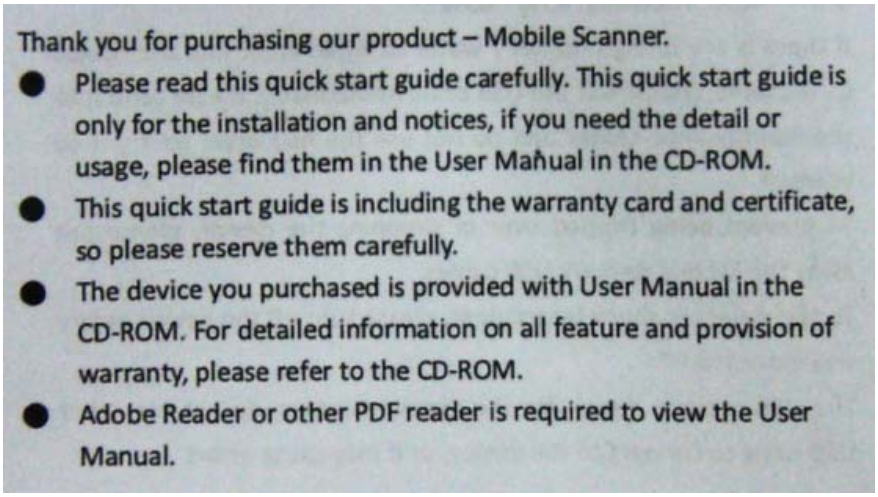
Continuous Focus: When you click , KoPa Scanner A99 will perform continuous focus according to the environment. That is available when you click this button once. When you click it again, continuous focus fails, but you can be adjust it manually through "Focus".

Focus: Adjust the focus parameter of KoPa Scanner A99 according to environment. This parameter is adjusted manually and can only be adjusted manually when "Continuous Focus" fails.

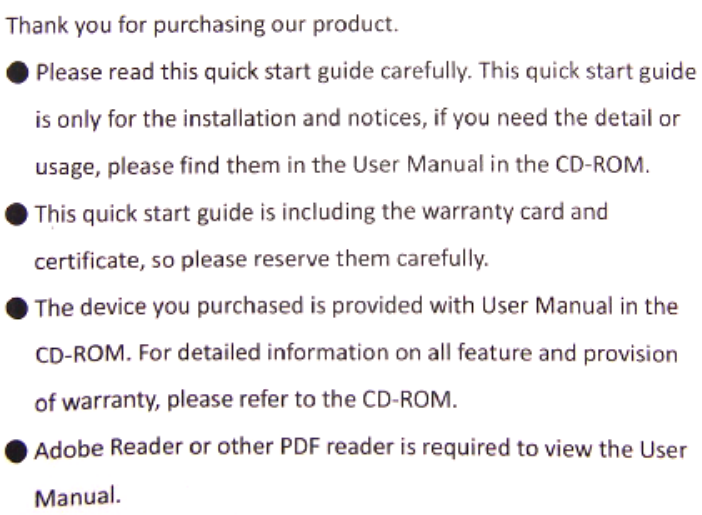
AE(Automatic Exposure): KoPa Scanner A99 can do automatic exposure according to environment. That is valid when the AE option is checked. When the option is unchecked, users can adjust it through "Exposure".

Exposure Parameter Adjustment: Users can modify the exposure parameter according to environment. This parameter adjusts based on AE. This function is available when "AE" is unchecked.

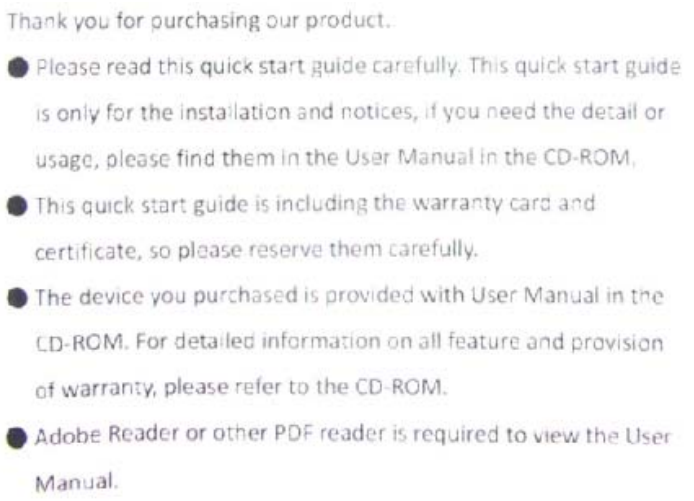
Please notice the following samples under different kinds of exposure parameters:



The exposure value is too low.



The exposure value is suitable.



The exposure value is too high.

Auto White Balance: KoPa Scanner A99 can do auto white balance according to environment. This function is available when this option is checked. When it is not checked, users can make adjustments by "White Balance".

White Balance: Users can adjust white balance parameters according to environment. This parameter is adjusted based on auto white balance and is available when "Auto White Balance" option is unchecked. Please notice the following samples under different white balance parameters:

White balance parameter is too low.

White balance parameter is suitable.

White balance parameter is too high.

Brightness: The brightness of the whole picture can be changed and is used with contrast regulation to make the best effect;

Contrast: Contrast between the light and dark of pictures can be changed and is used with brightness control to make the best effect.

Saturation: Color saturation of the picture can be changed to make the best effect.

After the completion of the above parameter adjustments, if results are not satisfactory, press Default to recover the parameters set during ex-factory.

2.1.1.4 Video Preview-Mode Selection

Software can preset parameters related to the image display based on different applications in order to be called for actual use.

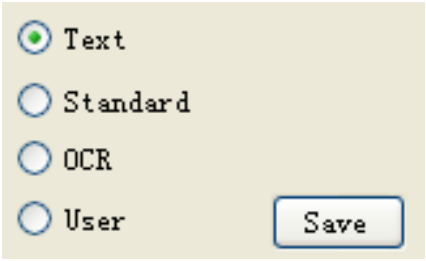


Photo (Image Mode): Suitable for most occasions;

Text (Text Mode): Scan and convert the preview screen to black-and-white images with high-definition and high-contrast;

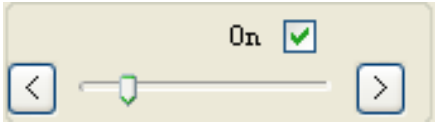
OCR (OCR Mode): Suitable for scanning text documents in order to improve the rate of OCR character recognition;

Custom (User Customization Mode): Users can adjust appropriate parameters according to the actual situation .Parameters are saved in the second mode for the next call. Press to save.

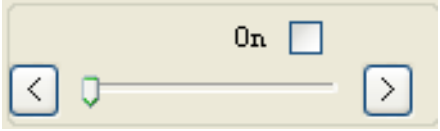
Note: Parameters set during ex-factory are the same to those in Photo (Image Mode).

2.1.1.5 LED Lighting Brightness Adjustment

The auxiliary lighting LED lights have six brightness levels. When this option is checked, the brightness is in first class, as shown in image (1). When the check is deleted, LED lights will automatically turn off, as shown in image (2).



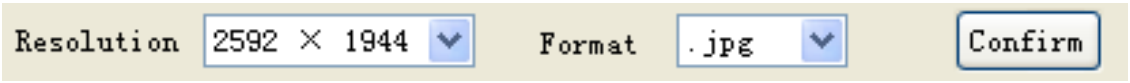
（1）



（2）

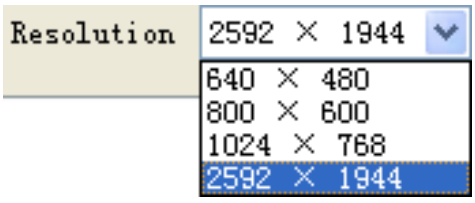
2.1.2 Real-time Scan Toolbar

Real-time scan toolbar is made up of two parts: Save Resolution and Save Format.

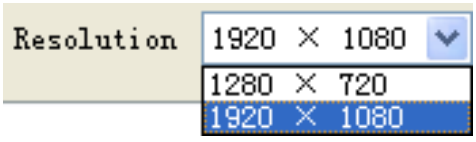


2.1.2.1Save Resolution

When the preview resolution is 4:3, scan resolution can only be 4:3, 640×480，800×600,1024×768,2592×1944. The default 4:3 maximum resolution is 2592 × 1944as shown in image (1). When the preview resolution is 16:9, the scan resolution can only be 16:9, 1280 × 720 and 1920 × 1080. The default 16:9 maximum resolution is 1920 × 1080, as shown in image (2).



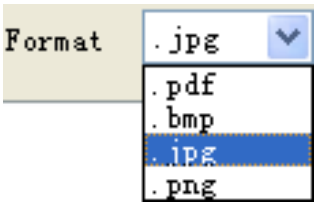
(1)



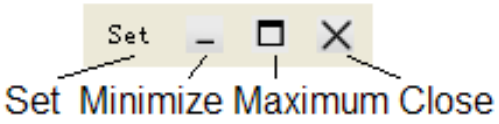
(2)

2.1.2.2 Image Format

Image formats have .pdf，.bmp，.jpg and .png.The program defaults to.jpg. You can choose any of them according to your need.



2.1.3 Menu



From left to right: Set, Minimize, Maximum, Close.

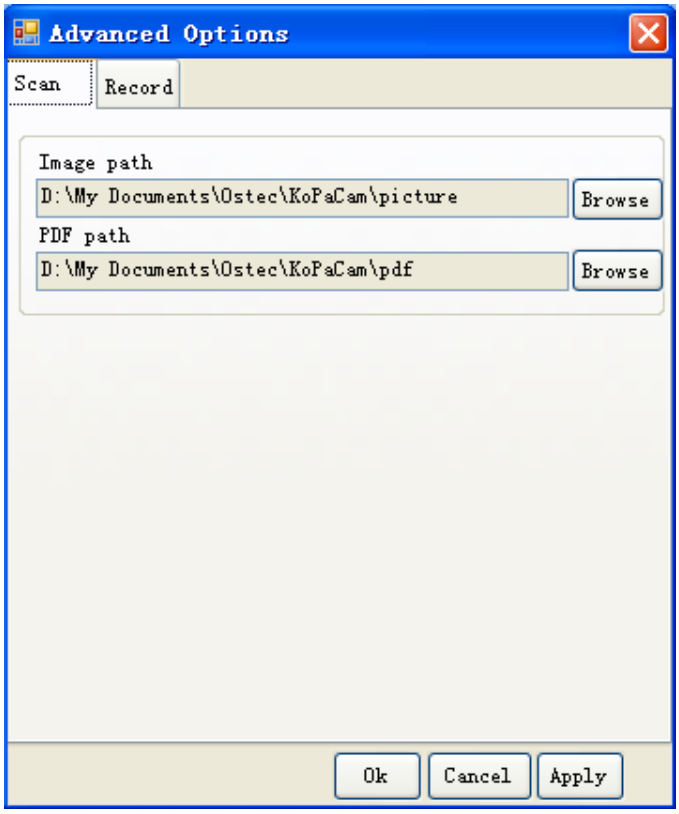
2.1.3.1 Set

Click Set. There will be "Advanced Options" and "About" option.

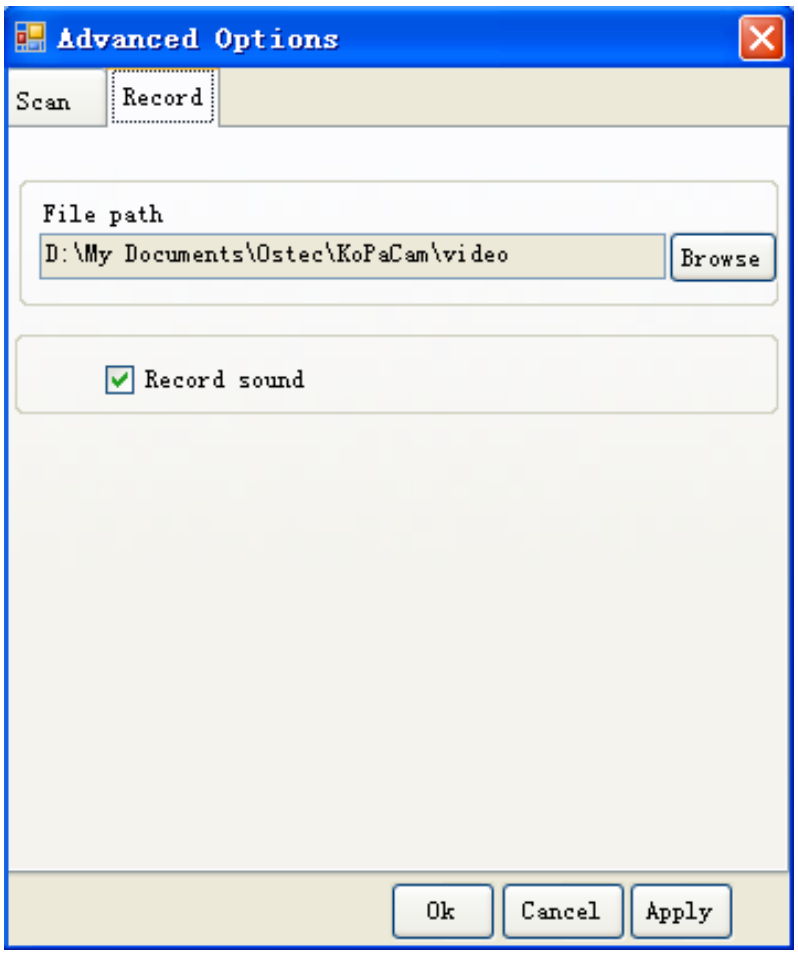
"Advanced Options" is divided into two options "Scan" and "Video".

Scan: You can select the save path of images and PDF documents in this mode, as shown in image (1).

Video: You can select the save path of video files and whether there is sound when recording, as shown in image (2).



(1)



(2)

Click"About". The following information will appear.Click OK to exit.

2.1.3.2 Minimize, Maximize and Close

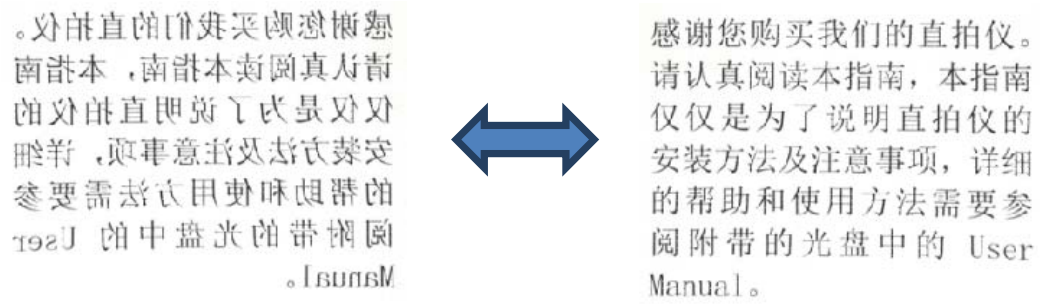
Click , and to minimize, maximize and close the software operating interface.

2.1.4 Preview Screen Adjustment

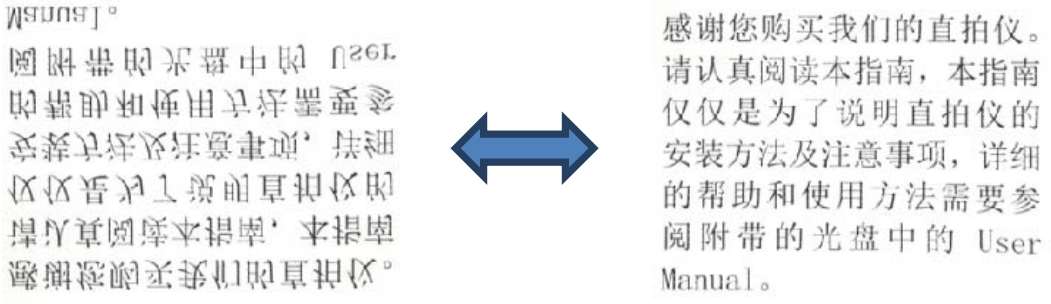
From left to right: Mirror, Flip, Zoom out, Zoom in, Actual Size, Fit the Screen and Full Screen.

2.1.1.4 Mirror and flip

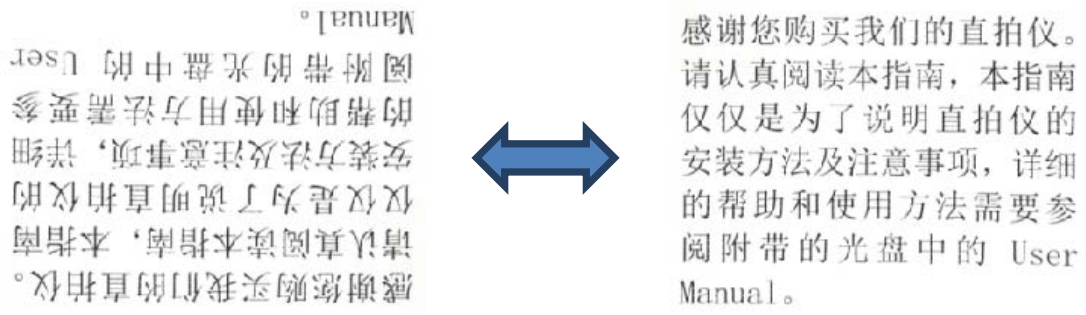
Contrast between preview images before and after mirror



Contrast between preview images before and after flip



Contrast between mirror + flip preview images (Equivalent to the image rotated by 180 degrees)



2.1.4.2 Zoom out and Zoom in

Under preview resolution of 640 × 480,800 × 600,1024 × 768, click "Zoom out" and "Zoom in" button, or click the seekbar directly with your mouse to zoom in and out the preview screen.

2.1.4.3 Actual Size (1:1)

The field angle is variable and defaults to intermediate position. If it is more than the current software preview range, you can press the left mouse button to drag. Under fit the screen mode, the field angle defaults to middle position.

2.1.4.4 Fit the Screen

Fit preview range of the current software. The field angle remains the same and the maximum screen does not exceed the preview range. If smaller than the preview range, the screen is the actual size (such as 640 × 480).

2.1.4.5 Full Screen

Click "Fit the Screen", the image fills the entire screen. In this mode, click the right mouse button or press ESC key to return and the image remains in the same location. If the original image is 1:1, then returns 1:1 state; if it is the fit size state, then returns the appropriate size state.

2.1.4.6 Scan

Click the scan button to scan the image displayed in the preview window. Picture can be dealt in "thumbnail window" or "work mode adjustment" → "document" to copy, delete, rename, save as, OCR, etc.

Save path of scanned documents:

…\My Documents\Ostec\KoPaCam\picture

…\My Documents\Ostec\KoPaCam\pdf

Note: The save path of the scanned documents can be modified according to your needs. For modification method, please see 2.2.1.

2.1.4.7 Video

Click video button for recording the image displayed in the preview window. Pictures can be dealt in "file thumbnail window " toopen,open the directory, cut, copy, paste, delete and rename.

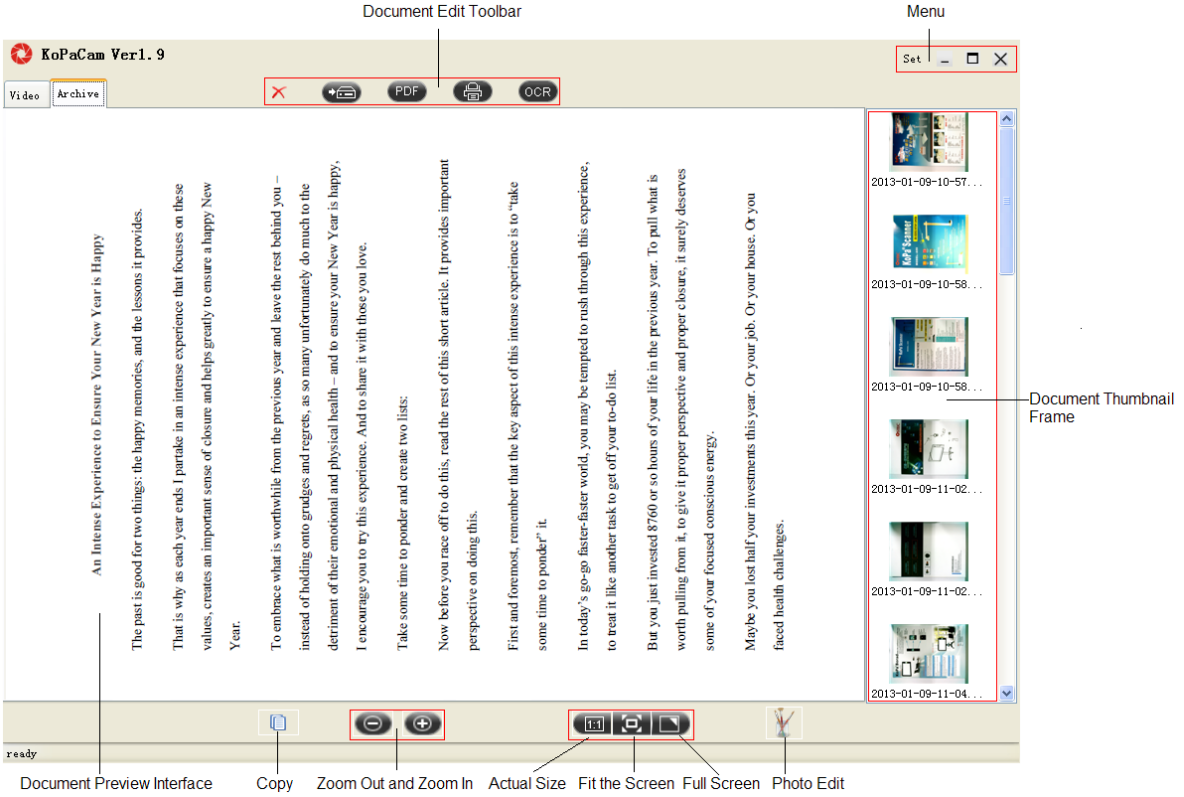
Save path of videos is

…\My Documents\Ostec\KoPaCam\video

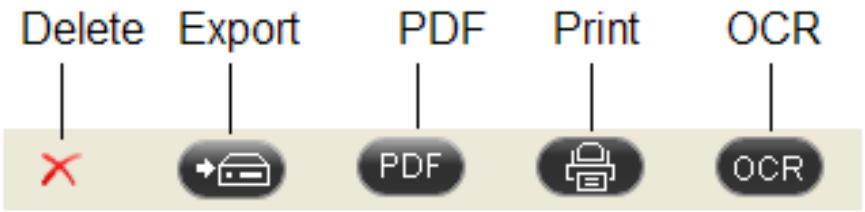
Note: Save path of Videos can be modified according to your needs. For modification methods, please see 2.2.1.

2.2 Document Work Mode

The following interface will appear when you click Archive.



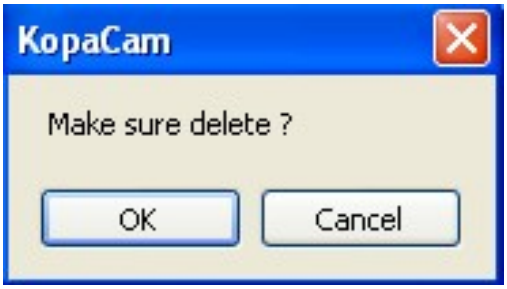
2.2.1 Document Editing Toolbar



From left to right: Delete, Export, PDF, Print, OCR.

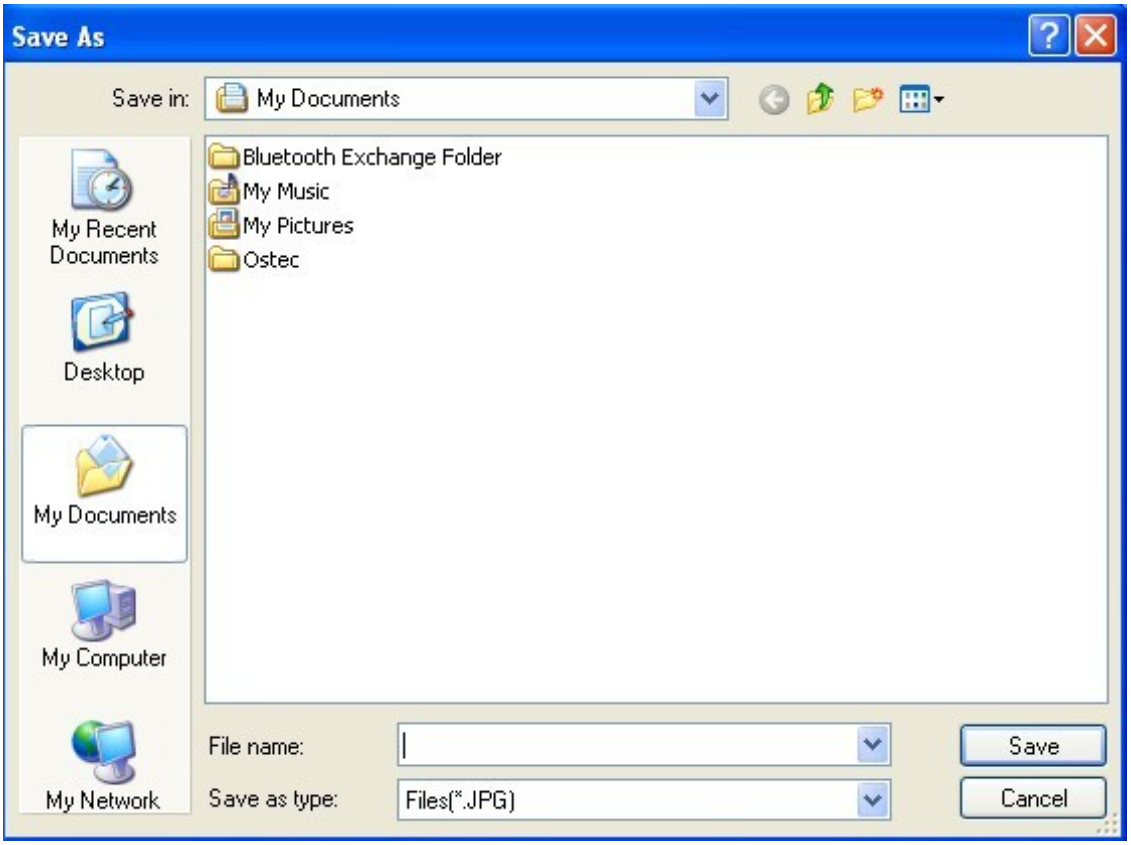
2.2.1.1Delete

The following window will appear when you click . Click to delete the document in current preview interface.



2.2.1.2 Export

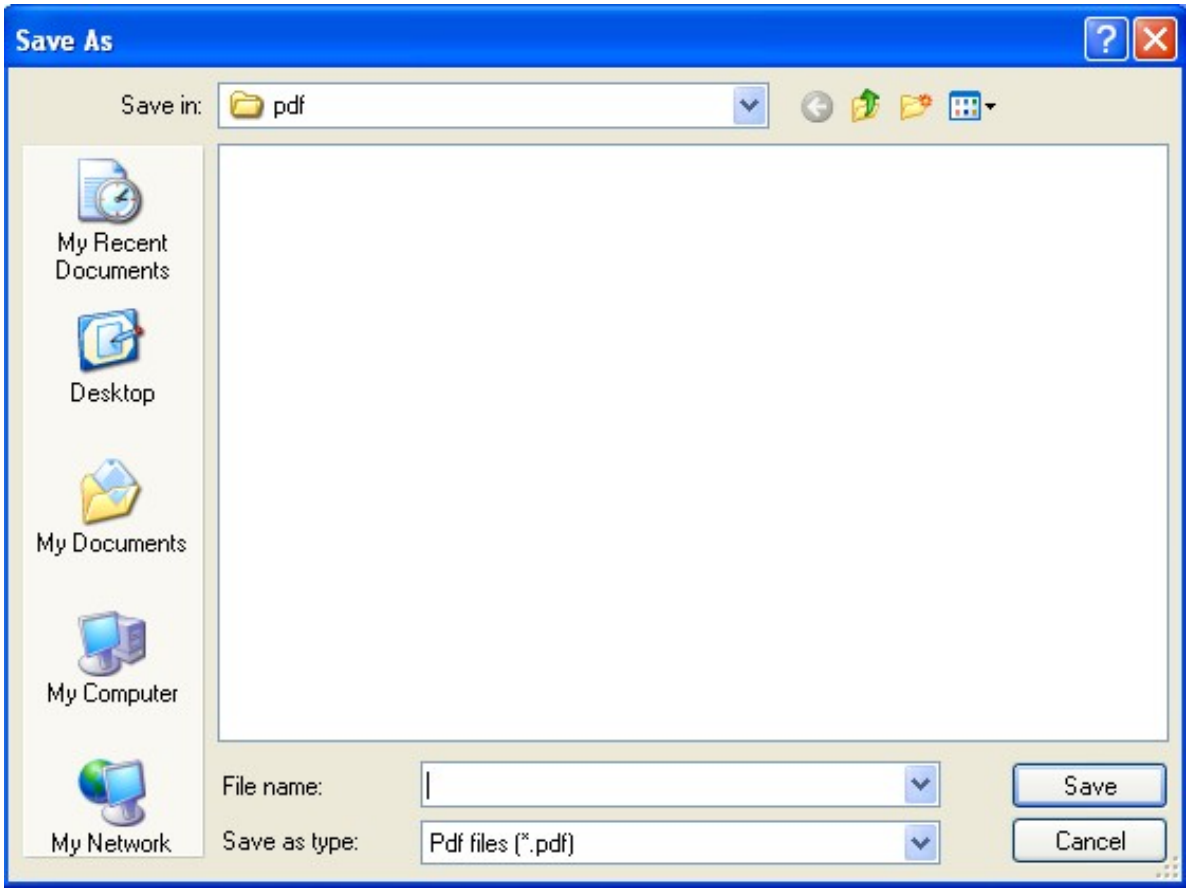
Click button, the screen appears as shown below. According to your needs, rename the current preview document, re-select the file save format and click save-as option to your specified folder.



2.2.1.3 PDF

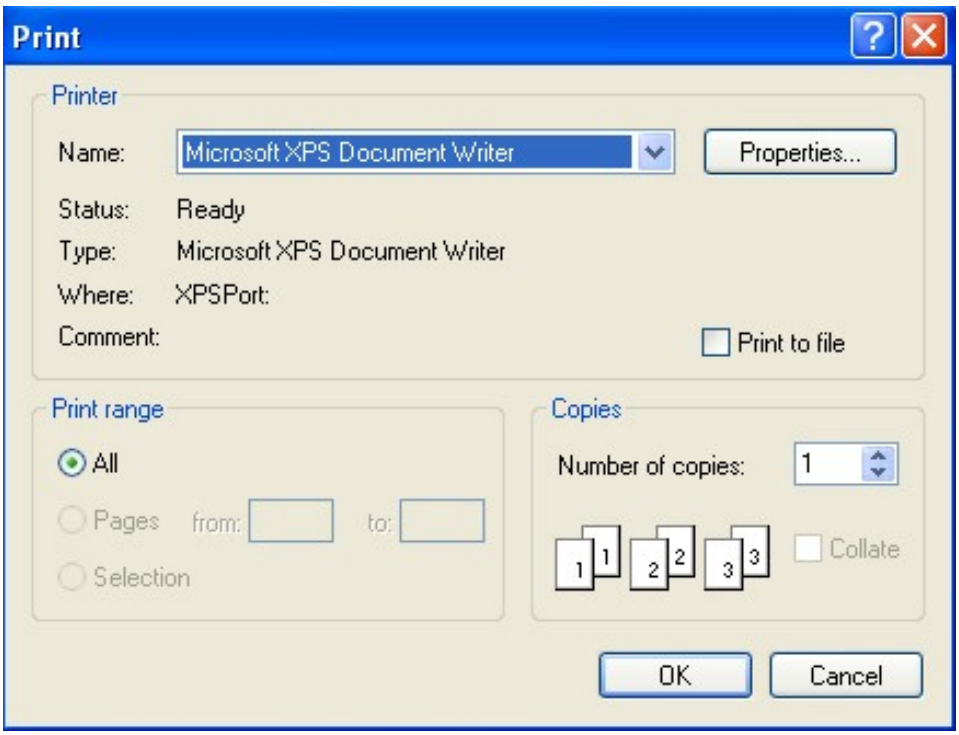
Click

button, the screen appears as shown below. The preview document can be saved in PDF format according to your needs. Rename and save as the document to other folders you specify.

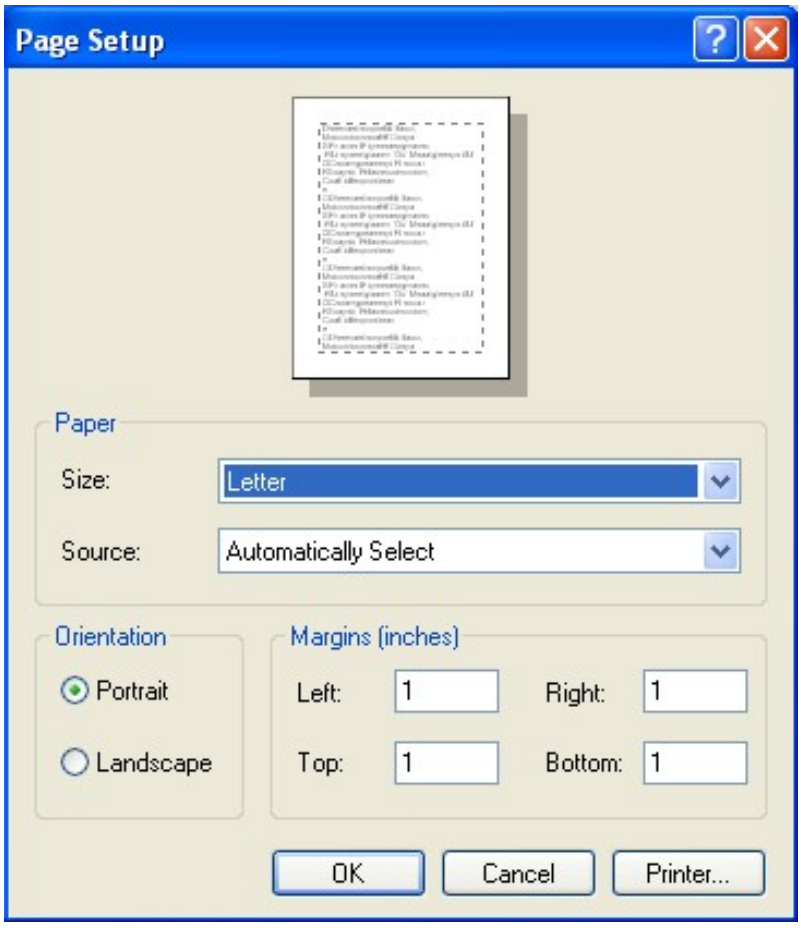


2.2.1.4 Print

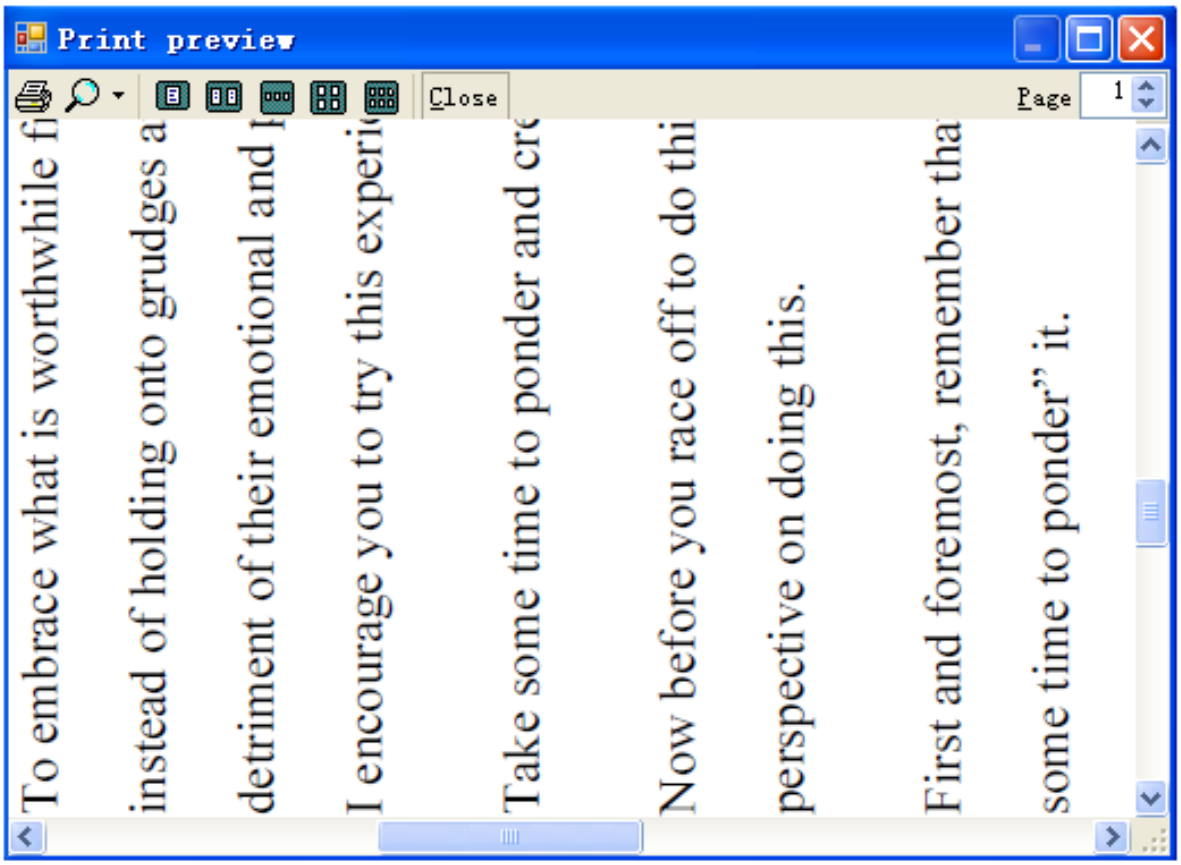
Click . Three options, "Print"， "Page Setup" and "Print Preview" will appear. You can print the document in need.



Print



Page Setu



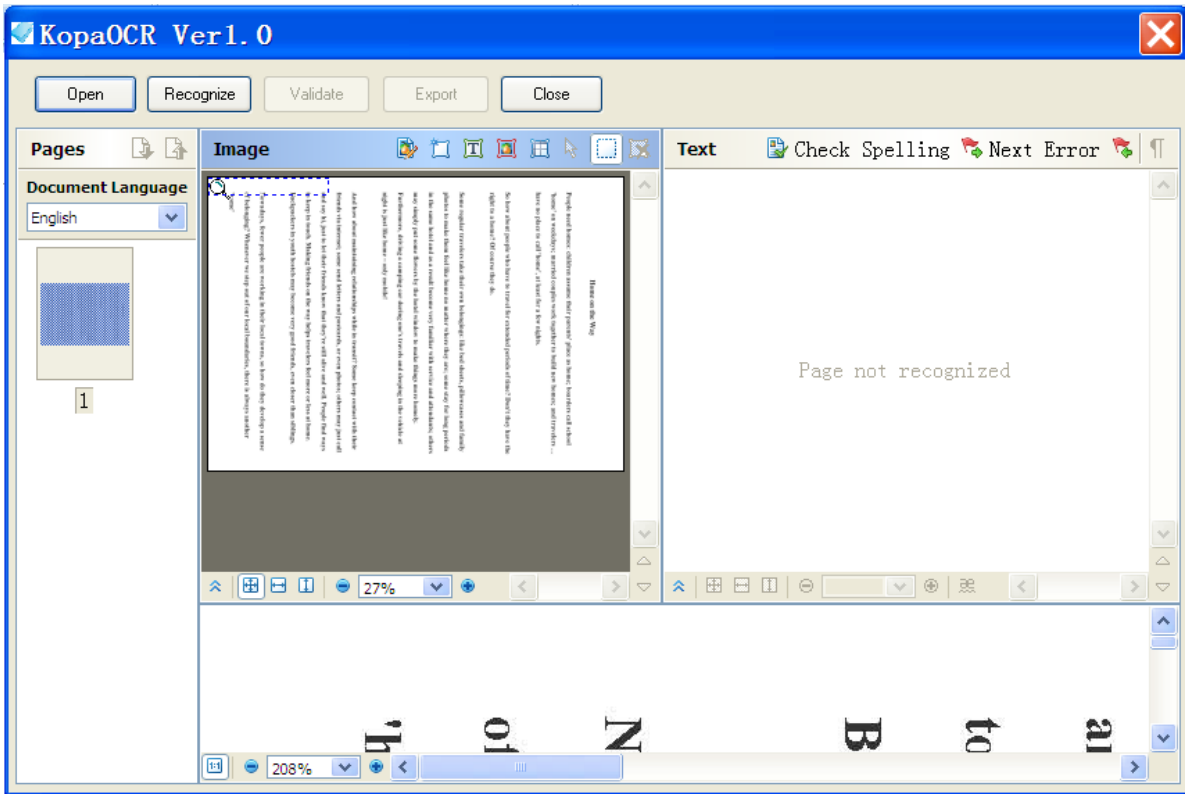
Print Preview

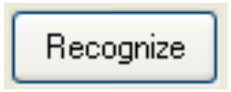
In order to ensure the print effects, you should better make the "Page Setup" and "Print Preview" before printing.

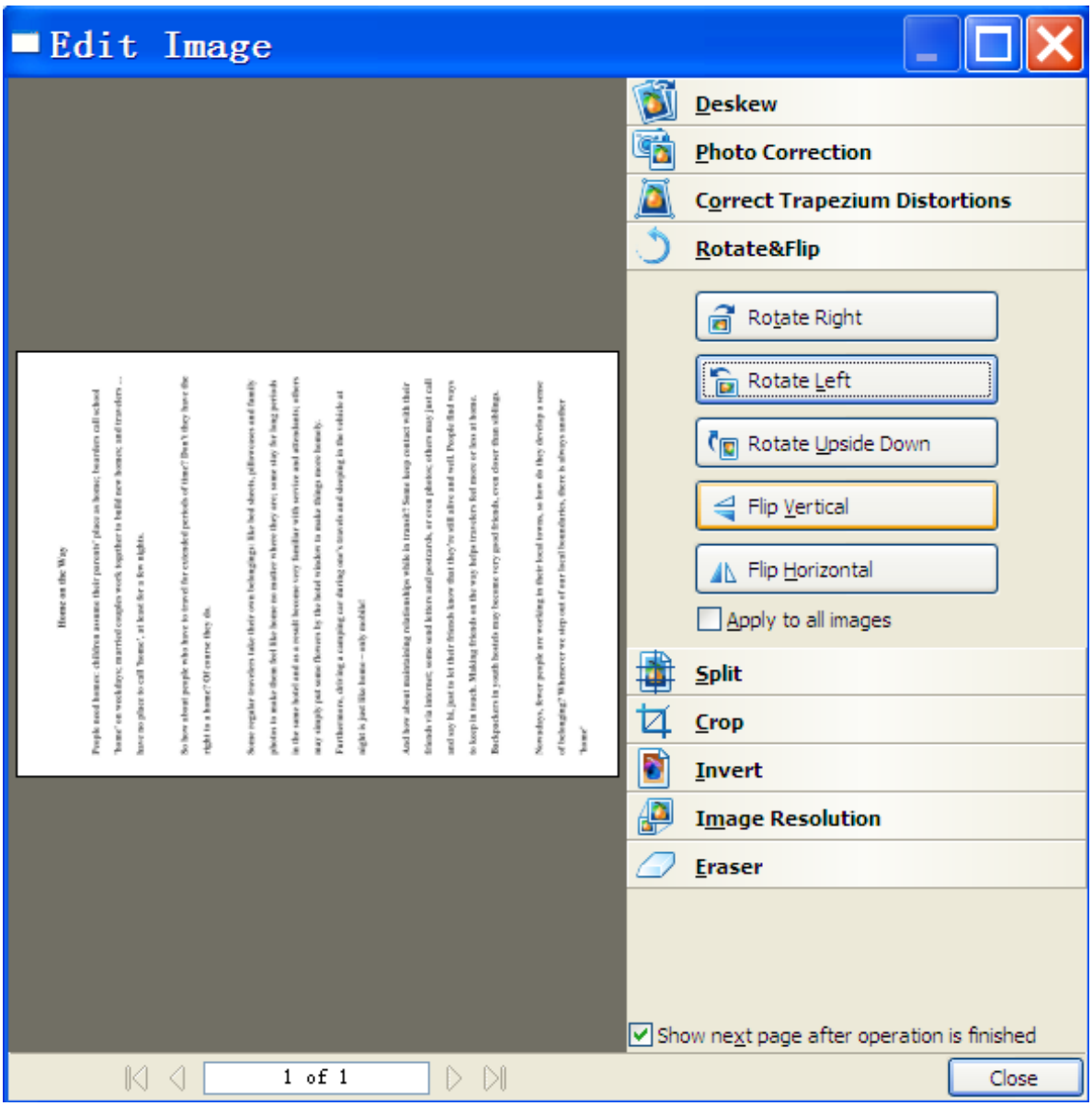
2.2.1.5 OCR

Click

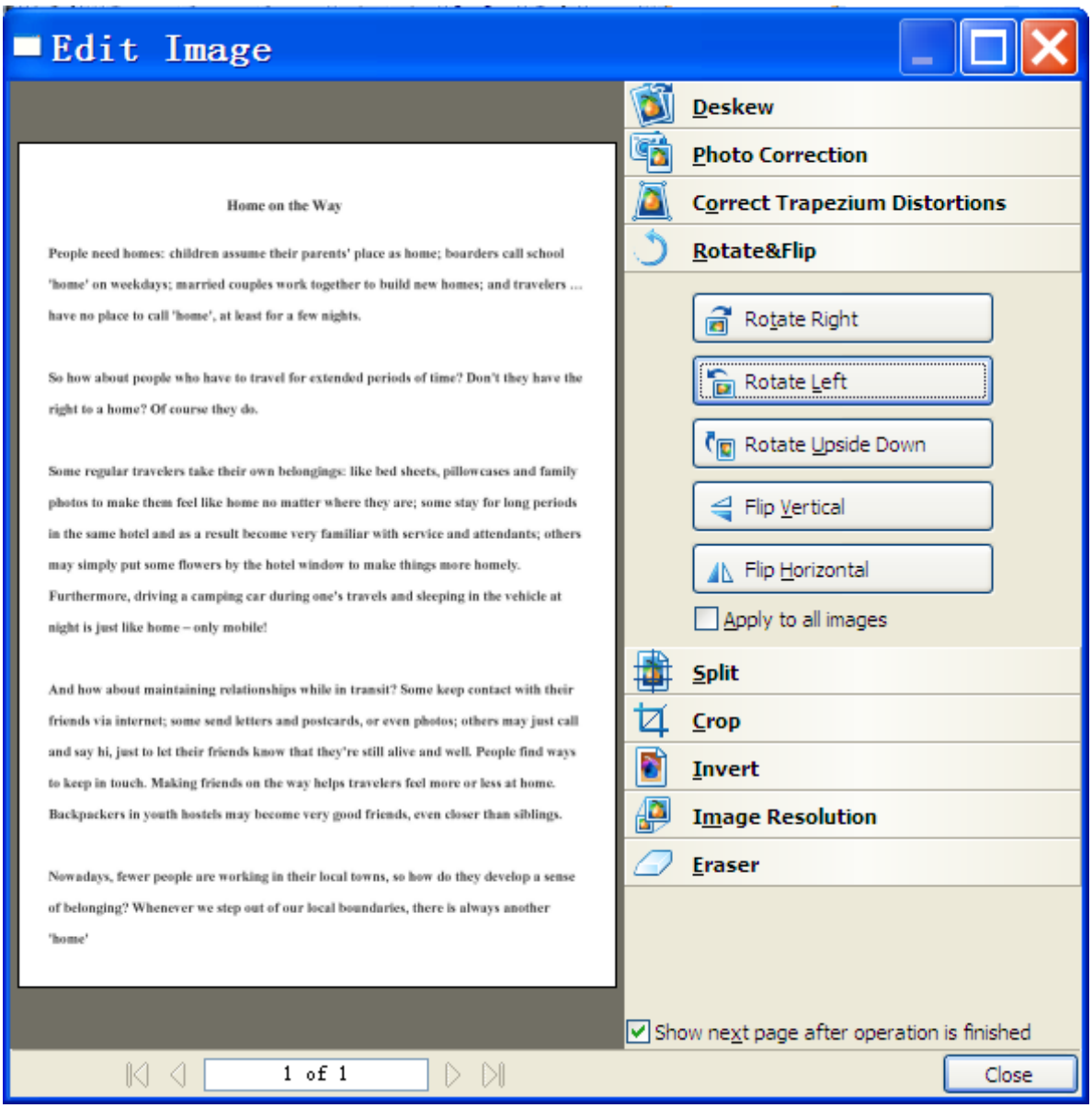
. The screen appears as shown below. Users can make OCR recognition to picture documents according to their needs.



Before clicking  the identification button, please ensure that the document language to be recognized by OCR is consistent with operating system language of your computer, otherwise you need to adjust the corresponding document language. The default language of the software is computer operating system language + English. In accordance with document contents, click the edit image button and the following screen will appear. Make corresponding parameter adjustments according to your needs. You can also set other parameters according to your needs. For example, click to achieve the best OCR recognition effect and recognition accuracy.



Note: OCR character recognition temporarily only supports characters' level layout. If the characters are not in level layout, they need being adjusted to level layout and then go for OCR character recognition. As shown below:



2.2.2 Menu

For operating methods, please see: 2.1.3.

2.2.3 Document Preview Picture Adjustment

2.2.3.1 Copy

Click to copy the current preview picture to the clipboard, and then userscan paste it directly into paint program, such as word, Excel, PPT, QQ which can directly accept pasted pictures.

2.2.3.2 Zoom out and Zoom in

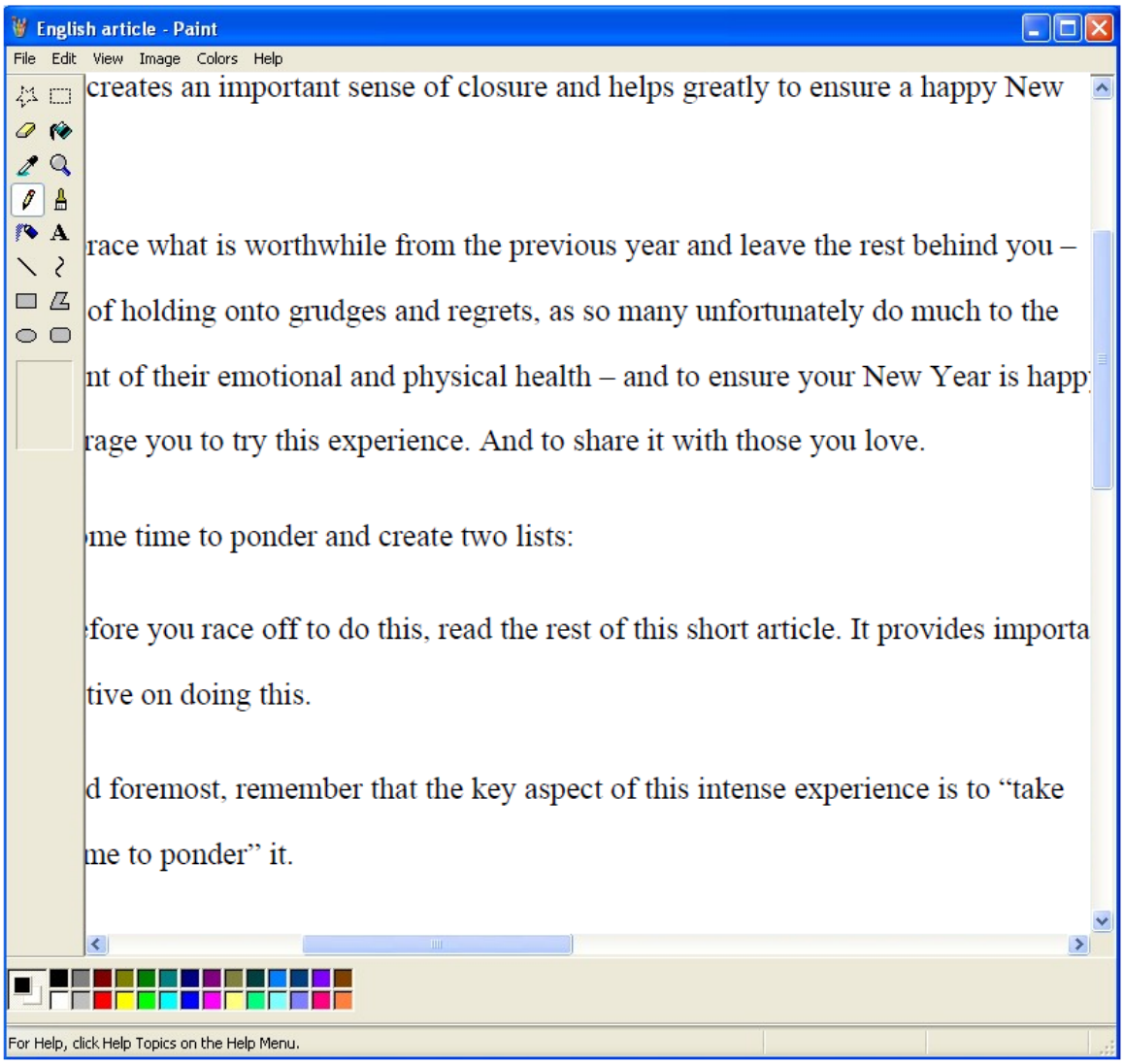
Click and to zoom out and zoom in the preview document screen. The minimum value is 5% of the preview document screen; the maximum value is 100% of the preview document screen.

2.2.3.3 Document Preview Screen Size Adjustment

For operating methods, please see：2.1.4 .3、2.1.4 .4 和 2.1.4 .5.

2.2.3.4 Photo Editing

Click , to edit the preview photo, as shown below:



2.2.4 Document Thumbnail Box

Click the document in document thumbnail box to open, open the directory, cut, copy, paste, delete, rename, and OCR. Part of the operating method scan be found in 2.2.1.

Chapter3 Help

3.1 Fix Camera Height

There are A4, B5, A5 and card mark on the scale benchmarking.
When you scan a document, set the fixed height of the camera based on the size of the scan document in order to achieve the best scan or video effects.

3.2 Other Purposes

When the device is used for other purposes, such as video chat, you only need to connect the USB cable to the computer's USB interface.
If it is used as a desk lamp, you need to open KoPaCam software and click auxiliary lighting.

3.3 Security Exit

For users not familiar with KoPa scanner, the device is like a regular desk lamp. When they want to turn it off, they probably switch off the electrical power directly. However, that action does great harm to KoPa Scanner. Because when KoPa Scanner A99 is in use, direct power off would seriously affect its life. The correct method is to exit the work program and then cut off the power.

Chapter4 Tips

4.1 How to improve the character recognition rate?

OCR function recognition rate depends on the contrast and clarity of character and background. When the two conditions are reached, the general character recognition rate can reach 95% or more.

(1) Crop character-only part of the picture.

(2) Try to ensure that the character does not tilt (If character tilts, please adjust the picture to horizontal angle).

4. 2 How to Edit Text File?

Scan the text file for character recognition and then edit the document directly.

4. 3 Scanned Documents with Spots?

Whether KoPa Scanner lens is clean or not will directly affect the clarity of the content on the computer screen when you are previewing. Various circles or spots on the screen are mostly because of the dust on the lens. Use professional lens paper or other professional cleaners to clean the dust on KoPa ScannerA99 lens.

Chapter 5 Common Questions and Resolutions

KoPa Scanner A99 cannot work regularly

(1) Check whether the USB port is connected properly.

(2)Whether My Computer->Device Manager has image processing device->USB video device.

(3) Try to plug out and unplug the device then open KoPaCam software again.

(4) Check whether KoPaCam software works regularly.

(5) Check whether KoPaCam software is installed successfully.